

FCC ID: O2J-255AS Operational Description

Airsynergy is part of Airspan's broadband fixed cellular wireless access system.

The system provides a radio link between a Base and a Terminal to give high-speed data access.

The Airsynergy WiMAX transceiver operates in OFDMA mode with the following characteristics:

Frequency range: Frequency of operation is aligned with EBS channels and operates within the 2500 – 2572 MHz band

- 5 MHz channels: Centre frequencies of 2503 to 2569 MHz
- 10 MHz channels: Centre frequencies of 2506 to 2566 MHz

Duplex mode: TDD

Channel BW: 5 and 10 MHz

Max Output Power: 2 x +30dBm (30dBm per port, MIMO mode)

Modulation rates: BPSK, QPSK, 16QAM, 64QAM, 256QAM

The maximum RF output power at each of the antenna ports is 30dBm and it can be reduced by software.

The unit is installed outdoors and typically is mounted on a pole and provides subscribers with "always-on" Internet, high speed data only, or data and voice (VoIP) services and is configured with a unique base station reference number, preventing the Subscriber from relocating to another subscriber premises without authorization.